CLAIMS

Sub A6

1. A mobile terminal, comprising:

a processor;

a memory;

transceiver circuitry;

an internal bus coupled to the memory, to the transceiver circuitry and to the processor; and

wherein the memory includes computer instructions that define operational logic of the mobile terminal to enable the mobile terminal to remove IP packet header information of a plurality of data packets and to construct an SMS message.

2. The mobile terminal of claim 1 further including computer instructions that define operational logic to enable the mobile terminal to process the constructed SMS message.

3. The mobile terminal of claim 1 further including an audio processing circuit for generating audio to be played over a speaker, which audio signals were received as a digital signal by the mobile terminal.

4. The mobile terminal of claim 1 further including a speaker coupled to receive an analog signal from the audio processing circuit wherein the speaker creates audio for human perception.

5. The mobile terminal of claim 1 further including a microphone for converting sound into electrical signals, which electrical signals are transmitted to the audio processor.

6. A mobile terminal, comprising:

transceiver circuitry for receiving communication signals over a wireless communication link; and

SMS message processing circuitry for reconstructing and processing SMS messages transmitted in a data packet format, the processing circuitry being coupled to receive data packets from the transceiver circuitry.

7. The mobile terminal of claim 6 further comprising legacy SMS message processing circuitry wherein the mobile terminal is coupled to receive SMS messages in both data packet and in legacy SMS message formats.

8. The mobile terminal of claim 6 further comprising audio processing circuitry coupled to receive communication signals from the transceiver circuitry.

9. The mobile terminal of claim 8 further comprising a speaker coupled to the audio processing circuitry for producing sound.

10. The mobile terminal of claim 8 further comprising a microphone for receiving sound waves and for converting the received sound waves into electrical

signals that are to produced to the audio processor for processing.

11. A method in a GPRS capable mobile terminal for receiving an SMS message, comprising:

receiving a plurality of data packets;

determining that the plurality of data packets form an SMS message;

removing packet header information;

reforming an SMS message; and

processing the SMS message by SMS processing circuitry within the mobile terminal.

12. The method of claim 11 further including the step of receiving an SMS message in a legacy format and then processing the SMS message by the SMS processing circuitry within the mobile terminal.

13. The method of claim 11 further including the step of transmitting an SMS message from the mobile terminal to a base station in a data packet format.

14. The method of claim 13 further including the step of converting an SMS message into a plurality of data packets.

15. The method of claim 14 further including the step of inserting an IP address of a message center within a header of each of the data packets.